

# Receiving Report

Date:

16-6-20

Batch No:

135043

Supplier:

Avall

Dart P/O:

32690

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☒ No ☐  
 Receipt: Cash ☐ Cr ☒  
 New Supplier Yes ☐ No ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☒ No ☐  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC18 Inspection ☐ N/A ☒  
 Work Order ☐ N/A ☒

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12

SP

Production/Admin:

Date

Received/Costing

Initial

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Location

\_\_\_\_\_



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632.1053

# PURCHASE ORDER

Purchase Order ID **PO32690**

Purchase Order Date 6/14/2016

PO Print Date 6/14/2016

Page Number 1 of 2

**Order From :**

AVIALL  
PO BOX 842275

DALLAS, TX 75284-2275  
USA

VU-AVI003

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**E-MAILED**  
JUN 14 2016

**Contact Name**

**Vendor Phone** 905-676-1695

**Ship To Contact**

**Ship To Phone**

**Ship Via:** FedEx Overnight collect

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

USD

**FOB**

EXW - (Ex Works)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	MS21062L3	Nut Plate	6/16/2016 Yes 6/16/2016		100.00 Each	\$1.10	\$110.00
Line Total:							\$110.00
2	71400-11	PS890B2PT PRO-SEAL SEALANT	6/16/2016 Yes 6/16/2016		6.00 Each	\$64.05	\$384.30
Line Total:							\$384.30
EXP: 12/31/2016 73.36% SHELF LIFE REMAINING							
4	MS27039-1-23	SCREW	6/16/2016 Yes 6/16/2016		50.00 Each	\$0.15	\$7.50
Line Total:							\$7.50

**Deliver To:** ANDY

**PO Instructions:** Fedex Acc#151793240

**Note:**

6/14/2016

8/16-6-20



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

# PURCHASE ORDER

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Purchase Order Date 6/14/2016

PO Print Date 6/14/2016

Page Number 2 of 2

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PO BOX 842275

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VU-AVI003

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

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**Ship To Contact**

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Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

USD

**FOB**

EXW - (Ex Works)

**Line Total:** \$7.50

5

71401-45

PROCUREMENT  
QUALITY CLAUSES

6/16/2016

1.00 ✓

\$0.00

\$0.00

No

6/16/2016

**Procurement Quality Clauses**

A005 RIGHT OF ENTRY

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS

FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A043 RETENTION OF QUALITY DOCUMENT

*SP/6-6-20*

**Line Total:** \$0.00

**PO Total:** \$501.80

**PO Instructions:** Fedex Acc#151793240

**Note:** Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

**Change Nbr:** 2

**Change Date:** 6/14/2016

*W*  
*CL*

# BOX CONTENT LIST



ODO: 310004400851

ROUTE: FDXIPA

PAGE: 1 of 1  
DATE: 06/14/2016  
TIME: 20:40:52



Handling Unit: 110000000493923769

Packed at WorkCenter: SI07

CUSTOMER PO:PO32690  
ORDER NUMBER:8003215486

B CU10003951  
I DART AEROSPACE LTD  
L 1270 ABERDEEN STREET  
L HAWKESBURY ON K6A 1K7  
T CANADA  
O

S CU10003951  
H DART AEROSPACE LTD  
I 1270 ABERDEEN STREET  
P HAWKESBURY ON K6A 1K7  
T CANADA  
O

S 1000  
H AVIALL CENTRAL WAREHOUSE  
I DALLAS CDC  
P PO Box 619048  
F DFW AIRPORT TX 75261  
R USA  
M

LINE	PO LINE	MFG	ITEM DESCRIPTION	ORDER QUANTITY	SHIP QUANTITY	UOM
00010		28	MS21062L3=28 NUTPLATE: SELF-LKG,CRES	100	100	EA
			BATCH 7364255105 Exp Date:		100	
00020		5N	PS890B2PT=5N KIT: SEALANT,FUEL TANK,PT	6	6	EA
			BATCH 7364216747 Exp Date: 12/31/2016		6	
00030		28	MS27039-1-23=28 SCREW: PAN HD,ST	50	50	EA
			BATCH 7364237220 Exp Date:		50	

*2016-6-20*

**This is not an invoice.  
For payment processing, please refer to Invoice.**

The recipient of these goods agrees to comply with all export regulations governing the transfer, sale, lease or use of these goods.  
Diversion contrary to U.S. Law is prohibited.

## CERTIFICATE OF CONFORMANCE

It is hereby certified that Aviall Services, Inc., is an approved distributor and meets all requirements of ISO9001, AS9100, AS9120 and AC 00-56 at 2750 Regent Blvd. DFW Airport, Texas. The products, articles or parts referenced on this document are in new or overhauled condition and were purchased from an approved source (FAA, EASA, TCCA, Mil Spec or Commercial). The Original Manufacturers' Certifications are maintained on file at our central office location, and copies are available upon request or at Aviall.com. For overhauled or repaired products, articles or parts, the original FAA 8130-3 / EASA Form 1 (Return to Service) or Yellow Tag, from the FAA/JAA/EASA approved Air Agency are attached to the component.

DISCOUNT TERMS APPLY ONLY TO SUB TOTAL. ALL  
RETURNED MERCHANDISE SUBJECT TO HANDLING  
FEE.

THIS IS TO CERTIFY THAT AVIALL HAS COMPLIED WITH  
THE PROVISIONS OF THE FAIR LABOR ACT OF 1938  
AMENDED.

# PACKING LIST



DELIVERY NUMBER: 8003215486

ROUTE: US FedEx International Priority

PAGE: 1 of 1  
DATE: 14JUN16  
TIME: 20:43:17  
EMP: 00000000

ORD TYP: ZOR 132  
CURRENCY: USD  
TERMS: Net 30

CUSTOMER PO: PO32690  
ORDER NUMBER: 1002228213  
ORDER DATE: 14JUN16

B 10003951  
I DART AEROSPACE LTD  
L 1270 ABERDEEN STREET  
L HAWKESBURY ON K6A 1K7  
CANADA  
T  
O

S 10003951  
H DART AEROSPACE LTD  
I 1270 ABERDEEN STREET  
P HAWKESBURY ON K6A 1K7  
CANADA  
T  
O

S 1000  
H AVIALL CENTRAL WAREHOUSE  
I DALLAS CDC  
P 2750 REGENT BLVD  
DFW AIRPORT TX 75261  
USA  
F  
R  
O  
M

LINE	PO LINE	MFG	ITEM DESCRIPTION	ORDER QUANTITY	SHIP QUANTITY	QUANTITY BACK ORDER	UOM	LIST PRICE	CUSTOMER PRICE	EXTENDED CUSTOMER PRICE
00010	0	28	MS21062L3 NUTPLATE: SELF-LKG,CRES	100	100	✓	0 EA	5.62	1.10	110.00
			BATCH 7364255105		100	✓				
00020	0	5N	PS890B2PT KIT: SEALANT,FUEL TANK,PT	6	6	✓	0 EA	126.08	64.05	384.30
			BATCH 7364216747 Exp Date: 31DEC16		6	✓				
00030	0	28	MS27039-1-23 SCREW: PAN HD,ST	50	50	✓	0 EA	0.78	0.15	7.50
			BATCH 7364237220		50					

*Sp 16-6-20*

**This is not an Invoice.**  
**For payment processing, please refer to Invoice.**

The recipient of these goods agrees to comply with all export regulations governing the transfer, sale, lease, or use of these goods.  
Diversion contrary to U.S. Law is prohibited.

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*[Signature]*

14JUN16  
Date

DISCOUNT TERMS APPLY ONLY TO SUB TOTAL. ALL  
RETURNED MERCHANDISE SUBJECT TO HANDLING  
FEE.  
THIS IS TO CERTIFY THAT AVIALL HAS COMPLIED WITH  
THE PROVISIONS OF THE FAIR LABOR ACT OF 1938  
AMENDED.

CUSTOMER COPY



A BOEING COMPANY

# Commercial Invoice

AVIALL SERVICES INC  
2750 REGENT BLVD  
DFW AIRPORT TX 75261  
USA

Government Transaction Number

NOEEI FTR 30.36

Delivery Number

8003215486

Tracking Number

Commercial Invoice Number

9303976195

Incoterms

Ship Date

EXW Shipping Point

14 June, 2016

Sold To DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA	10003951	Ultimate Consignee DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA	10003951	Ship To DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA	10003951	Freight Forwarder FEDEX FEDEX NATIONAL LTL INC PO BOX 94515 PALATINE IL 60094-4515 USA Tax Number: 20-4734803	400010
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Comments:

Item	Part Number & Description	Country of Origin	Quantity	UOM	Unit Value USD	Extended Value USD
20	PS890B2PT - KIT: SEALANT,FUEL TANK,PT Harmonized Tariff: 3214100020 Export Classification: EAR99 Authorization: NLRAT_JUN_2016 Sales Order: 1002228213 PO: PO32690 Batch Number: 7364216747	US	6	EA	64.05	384.30

5/16-6-20

Gross Value	384.30
Add on Charges	
Tax Value	
Freight Charges	
Total Net Value	384.30

FOR CUSTOMS PURPOSES ONLY  
NOT A BILLING INVOICE

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US laws is prohibited.

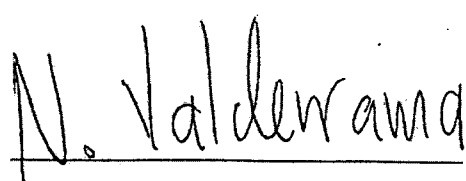
AVIAL - TRUE CERTIFIED COPY 106/14/2016 Ship # 8009215486 Line 10 7364255105 Qty 100 CPO: PO32690

REMIT TO: P.O. BOX 66249, LOS ANGELES, CA 90066-0249  
 13402 BEACH AVE., MARINA DEL REY, CA. 90292  
 TEL (310) 821-5582 \* FAX (310) 821-0378 \* (310) 821-5616  
 D.U.N.S. 05-148-3659 FEDERAL I.D. 95-2312505

ACCOUNT NO. 77003A  
 SOLD TO: AERO-GLEN INTERNATIONAL LLC  
 P O BOX 878  
 GRAPEVINE, TX 76099-0878  
 USA

SHIP TO:  
 AERO-GLEN INTERNATIONAL, LLC  
 1160 MUSTANG DRIVE STE 300  
 DFW INTERNATIONAL AIRPORT, TX 75261  
 USA

**AFI**  
**Aircraft Fasteners**  
 INTERNATIONAL, LLC  
 1w w . a i r c r a f t f a s t . c o m

SALES ORDER NO.		CUSTOMER P.O. NO.		BUYER	SALESPERSON	TERMS
935728-001		029010		MICHELLE FLORES	ERIN	1%10 NET30
DATE ORDERED	DATE SHIPPED	SHIP VIA / EIGHT SPECIAL INSTRUCTIONS				
10-27-14		UPS Ground - Collect Acct #: 756163				
LINE	ORDERED	PART NUMBER/DESCRIPTION/LOT NO.	QUANTITY	SHIPPED	NOTES	
					<b>CERTIFICATE OF CONFORMANCE</b>  All inventory is purchased and maintained with manufacturer's lot number traceability, unless otherwise specified, with documentary evidence in the form of certification of conformance and/or physical and chemical test reports on file, available for inspection, attesting that items have been manufactured in accordance with all applicable standards and specifications. Parts are free of debris, packaged in a clean environment that prevents contamination. AIRCRAFT FASTENERS INTERNATIONAL, LLC. disclaims any responsibility for manufacturing or functional defects and hereby limits express or implied warranties to liability for replacement of this material, with responsibility not to exceed the invoice amount. When exporting this product you must comply with US Export Administration regulations. Any diversion to these regulations contrary to U.S law is prohibited.   QUALITY MANAGER	

SHORTAGES MUST BE REPORTED WITHIN 10 DAYS.  
 NO RETURNS ACCEPTED WITHOUT AUTHORIZATION.  
 NO RETURNS ACCEPTED WITHOUT LOT TRACEABILITY.

MAINTAIN TRACEABILITY -  
 DO NOT MIX LOTS

PAGE: 2 of 2

PACKING SLIP / CERTIFICATION

**Alcoa  
Fastening  
Systems**



Aerospace Products · Republic Operations

**QUALITY OPERATING FORM**

Document: **F-10.700.6**  
Revision: 4  
Date: December 21, 2012  
DCN: 2055

**CERTIFICATE OF TEST**

WE HEREBY CERTIFY THAT ALL MATERIALS USED IN THE MANUFACTURE OF PARTS COVERED BY THE REPORT CONFORM TO THE MATERIAL SPECIFICATIONS CALLED FOR BY THE PURCHASE ORDER. WE FURTHER CERTIFY THAT THE PARTS ARE MANUFACTURED IN ACCORDANCE WITH APPLICABLE DRAWINGS OR SPECIFICATIONS CURRENT ON THE DATE OF MANUFACTURE. TEST REPORTS COVERING MATERIALS IN THESE PARTS AND INDICATING CONFORMANCE WITH APPLICABLE SPECIFICATIONS ARE ON FILE AND SUBJECT TO EXAMINATION. PARTS AS SHIPPED HAVE NEVER BEEN IN CONTACT WITH MERCURY. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL OF THE LABORATORY.

PARTS MANUFACTURED IN: ☐ U.S.A. ☒ MEXICO  
☒ IN ACCORDANCE WITH: DFAR 252.225.7014 ALT. I and DFAR 252.225.7009

Delema Martinez  
Signature of Quality Assurance Representative

7-30-13  
Date

P.O. No: 83390  
Quantity Ordered: 25,170  
Customer: AIRCRAFT FASTENERS  
Description: ASSEMBLY  
Also Certified To: NAS687C3M REV.11  
Date of Manufacture: 3-15-13

Item No: MS21062L3 REV.1  
Date Cert Ordered: 7-30-13  
ID No.: 41294  
Procurement Spec.: NASM25027  
Additional Info: N/A

Notice to Subsequent Purchaser or Repacker.  
These articles are imported. The requirements of 19 U.S.C 1304 & CFR part 134 provide that the articles or their containers must be marked in a conspicuous place as legibly, indelibly & permanently as the nature of the article container will permit, in such a manner as to indicate to an ultimate purchaser in the United States, the English name the country of origin of the article.

**IF APPLICABLE, CHECK ON BELOW:**

☐ **FAA CERTIFICATION (PMA):** IT IS HEREBY CERTIFIED THAT (A) THE PARTS AND/OR MATERIALS REFLECTED HERE-IN WERE PRODUCED UNDER FEDERAL AVIATION ADMINISTRATION APPROVED MANUFACTURING AND QUALITY CONTROL SYSTEMS/METHODS AS SET FORTH IN FEDERAL AVIATION REGULATION, PART 21, SUB-PART K, PARAGRAPH 21.303 AND (B) ALL PARTS AND/OR MATERIALS ARE CERTIFIED NEW, CONFORMS TO THE DESIGN DATA AND ARE IN AIR WORTHY CONDITION.

Signature of Quality Assurance Representative

Date

☒ **TSO-C148 STATEMENT:** THE PARTS CONTAINED IN THIS SHIPMENT HAVE BEEN MANUFACTURED AND INSPECTED IN ACCORDANCE WITH TSO-C148. THE CONDITIONS AND TESTS REQUIRED FOR TSO APPROVAL OF THIS ARTICLE ARE MINIMUM PERFORMANCE STANDARDS. AIRCRAFT FASTENERS APPROVED UNDER THIS TSO ARE NOT NECESSARILY INTERCHANGEABLE WITH OTHER AIRCRAFT FASTENERS APPROVED UNDER THIS TSO. FASTENERS OF SIMILAR DIMENSIONAL PROPERTIES MAY HAVE WIDELY VARYING PERFORMANCE AND METALLURGICAL PROPERTIES. SUBSTITUTION OF PARTS MAY ONLY BE DONE IS ACCEPTABLE TO OR APPROVE BY THE ADMINISTRATOR.

Delema Martinez  
Signature of Quality Assurance Representative

7-30-13  
Date

0096



**Alcoa  
Fastening  
Systems**



Aerospace Products · Republic Operations

**QUALITY OPERATING FORM**

Document: **F-10.700.6**  
Revision: 4  
Date: December 21, 2012  
DCN: 2055

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PARTS MANUFACTURED IN: ☐ U.S.A. ☒ MEXICO  
☒ IN ACCORDANCE WITH: DFAR 252.225.7014 ALT. I and DFAR 252.225.7009

Delema Martinez  
Signature of Quality Assurance Representative

7-30-13  
Date

P.O. No: 83390  
Quantity Ordered: 25,170  
Customer: AIRCRAFT FASTENERS  
Description: ASSEMBLY  
Also Certified To: NAS687C3M REV.11  
Date of Manufacture: 3-15-13

Item No: MS21062L3 REV.1  
Date Cert Ordered: 7-30-13  
ID No.: 41294  
Procurement Spec.: NASM25027  
Additional Info: N/A

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Signature of Quality Assurance Representative

Date

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Delema Martinez  
Signature of Quality Assurance Representative

7-30-13  
Date

0096



**FINAL (PROCESSING, LAB, MECHANICAL TESTING) INSPECTION REPORT**

Lot Number: <b>41294</b>	Part Number: <b>RF100C3M</b>	Dwg. Number: <b>NASMA50a7</b>	Dwg. Rev#: <b>1</b>	Lot Quantity: <b>25,170</b>	Date: <b>7/25/13</b>
Procurement Spec.: <b>NASMA50a7</b>		Proc. Spec. Rev#: <b>1</b>	Note: All Specifications Referenced Refer To The Most Current Revision Unless Otherwise Stated		
SAMPLE SIZE	CHARACTERISTIC DESCRIPTION	INSPECTION MEDIA	ACCEPTANCE STAMP	PRODUCTION RELEASE DATE	
NUT 34150	Material: <b>CHAMPION</b> Heat: <b>567266</b> Size: <b>.032 X .250</b>	Vendor Certification Alloy Verification	<b>788</b>	<b>4/18/13</b>	
CAP	Material: Heat: Size:	Vendor Certification Alloy Verification	<b>N/A</b>		
BASKET 24536	Material: <b>CHAMPION</b> Heat: <b>567370</b> Size: <b>.025 X 1.250</b>	Vendor Certification Alloy Verification	<b>788</b>	<b>3/15/13</b>	
CLIP	Material: Heat: Size:	Vendor Certification Alloy Verification	<b>N/A</b>		
<b>15</b>	AMS2759/3 Stainless Steel Only Aged Load: <b>7-13-13</b>	Tensile HRC Hardness Tester	<b>RFA 203</b>	<b>7/15/13</b>	
	AMS-H-6875 Steel Only Austempering Load: _____	Tensile HRC Hardness Tester	<b>N/A</b>		
	AMS2410 [ ] AMS2411 [ ]	Visual Adhesion And Thickness ASTM B568	<b>N/A</b>		
	AMS-QQ-P-418 Class 1 [ ] 2 [ ] 3 [ ]	Visual Adhesion And Thickness ASTM B568	<b>N/A</b>		
	AMS2400	Visual Adhesion And Thickness ASTM B568	<b>N/A</b>		
	Embrittlement Relief	23 [ ] 48-50 [ ] Clip Hours Stress At Room Temp Per NASM1312, Test 14	<b>N/A</b>		
	Embrittlement Relief	96 [ ] Hours Stress At Service Temp Per NASM1312, Test 14 [ ] BPS-N-70 [ ]	<b>N/A</b>		
	Gold Chromate Treatment Type II	Visual- Workmanship Salt Spray Test of AMS-QQ-P-418	<b>N/A</b>		
	Stainless Steel Only Passivated Per AMS-QQ-P-35, AMS2700	Visual High Humidity Test Per NASM1312	<b>RFM 203</b>	<b>7/17/13</b>	
<b>10</b>	Magnetic Permeability <2.0 (Air 1.0) For A Field Strength = 200 Oersteds	Indicator Per ASTM A342 Method 3, Corrosion Resistant Steel Only	<b>RFM 203</b>	<b>7/23/13</b>	
<b>80</b>	Non-Destructive Testing Discontinuities Sample <input checked="" type="checkbox"/> 100% [ ]	Magnetic Particle Per ASTM E1444 or Fluorescent Penetrant Per ASTM E1417	<b>RFM 203</b>	<b>7/15/13</b>	
<b>32 PCS</b>	Carbowax Per C-1315 Drawing Batch No: _____	Visual, Workmanship	<b>N/A</b>		
<b>10</b>	Dry Film Lubricant Per AS5272 Type 1 Batch No: <b>PL13872</b>	Visual, Workmanship, Adhesion Per AS5272 Verify Periodic Salt Spray	<b>RFM 203</b>	<b>7/20/13</b>	
	Microstructure	BPS-N-70 [ ] NAS3350 [ ]	<b>N/A</b>		
<b>20</b>	Threads Per MIL-S-8879, AS8879	Method B, System 22	<b>RFM 203</b>	<b>7/02/13</b>	

When printed, this document is uncontrolled; user is responsible to ensure revision compliance.

4096

**Alcoa  
Fastening  
Systems**



Aerospace Products • Republic Operations

**QUALITY OPERATING FORM**

Document: **F-10.703.1**  
Revision: 4  
Date: November 9, 2011  
DCN: 1714

**FINAL TORQUE AND HARDNESS TEST RESULTS**

Lot Number: <b>41294</b>	Part Number: <b>RF100C3M</b>	Dwg. Number: <b>NASMA1062</b>	Dwg. Rev#: <b>1</b>	Lot Quantity: <b>25,170</b>
-----------------------------	---------------------------------	----------------------------------	---------------------	--------------------------------

BPS-N-70 ATTRIBUTE PLAN			Other:		25027 ATTRIBUTE PLAN		
Lot Size	Sample Size	Accept	Sample Size	Accept	Lot Size	Sample Size	Accept
UNDER 9	2	0			Under 10M	5	0
9 THRU 15	3	0			10M THRU 50M	10	0
16 THRU 25	4	0			50M THRU 100M	15	0
26 THRU 90	5	0			OVER 100M	27	0
91 THRU 280	7	0					
281 THRU 3200	13	0					
OVER 3200	15	0					

TORQUE TEST														
Test Bolt:				Test Bolt Lot #:				Date:		Stamp:				
<b>NAS9603</b>				<b>30673M</b>				<b>7-22-13</b>						
Max. In. Lbs.: (1 <sup>ST</sup> ON)		Min. In. Lbs.: (1 <sup>ST</sup> BRK)		Seated Load:		NOTE: Record all cycles exhibiting values exceeding or not meeting maximum or minimum requirements as described in QOP 10.703, paragraph 8.7 and 9.11.								
<b>18.0</b>		<b>2.0</b>		<b>N/A</b>										
CY	ON	BRK	ON	BRK	ON	BRK	ON	BRK	ON	BRK	ON	BRK	ON	BRK
1	6.0	6.0	6.0	6.0	4.0	4.0	15.0	14.0	8.0	7.0				
7	9.0	9.0	9.0	11.0	10.0	11.0	11.0	10.0	7.0	7.0				
15	8.0	8.0	13.0	13.0	11.0	10.0	10.0	9.0	10.0	10.0				
1	7.0	6.0	7.0	6.0	7.0	7.0	8.0	7.0	6.0	6.0				
7	11.0	12.0	6.0	7.0	8.0	8.0	7.0	7.0	7.0	7.0				
15	14.0	15.0	10.0	10.0	10.0	10.0	11.0	11.0	12.0	12.0				
1														
7														
15														
1														
7														
15														

HARDNESS TEST															
CONVERTED FROM 30N SCALE TO HRC per ASTM E140										HRC Requirement:		Date:		Stamp:	
										Min.:	Max.:	<b>7-15-13</b>			
HRC	42	43	43	42	43	42	43	43	43	42	42	43	42	43	42
30N	61.6	62.3	61.8	61.3	62.2	61.1	62.6	61.9	62.2	61.6	61.3	61.8	61.6	61.8	61.8
15N*															
* CLIPS AND NUTS ONLY															
<b>* Reported For information only.</b>															

# SAFETY DATA SHEET



Date of issue/Date of revision 24 February 2016  
Version 3.02

## Section 1. Identification

Product name : PS 890 B 2 Part A  
Product code : PS 890 B 2 Part A  
Other means of Identification : Not available.  
Product type : Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications.  
Use of the substance/ mixture : Sealants  
Uses advised against : Not applicable.

Supplier : PPG Aerospace PRC-DeSoto  
12780 San Fernando Road  
Sylmar, CA 91342  
Phone: 818 362 6711

Emergency telephone number : (412) 434-4515 (U.S.)  
(514) 645-1320 (Canada)  
01-800-00-21-400 (Mexico)

## Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
Classification of the substance or mixture : ACUTE TOXICITY (oral) - Category 4  
ACUTE TOXICITY (inhalation) - Category 4  
SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 2  
TOXIC TO REPRODUCTION (Fertility) - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2  
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 9.5%

### GHS label elements

Hazard pictograms :



**Section 2. Hazards identification**

<b>Signal word</b>	: Warning
<b>Hazard statements</b>	: Harmful if swallowed or if inhaled. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.
<b><u>Precautionary statements</u></b>	
<b>Prevention</b>	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
<b>Response</b>	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.
<b>Storage</b>	: Store locked up.
<b>Disposal</b>	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	: Sanding and grinding dusts may be harmful if inhaled. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
<b>Hazards not otherwise classified</b>	: Oxidising potential : Contact with combustible material may cause fire. Keep away from clothing, incompatible materials and combustible materials. This material increases the risk of fire and may aid combustion. Prolonged or repeated contact may dry skin and cause irritation.

**Section 3. Composition/information on ingredients**

<b>Substance/mixture</b>	: Mixture
<b>Product name</b>	: PS 890 B 2 Part A

<b>Ingredient name</b>	<b>%</b>	<b>CAS number</b>
manganese dioxide	30 - 60	1313-13-9
Terphenyl, hydrogenated	10 - 30	81788-32-7
Zeolites	5 - 10	1318-02-1
Polyphenyls, quater- and higher, partially hydrogenated	3 - 7	68956-74-1
Talc, not containing asbestiform fibres	1 - 5	14807-96-6
carbon black, respirable powder	1 - 5	1333-86-4
magnesium carbonate	1 - 5	546-93-0
terphenyl	1 - 5	26140-60-3
1,3-diphenylguanidine	0.5 - 1.5	102-06-7
bis(piperidinothiocarbonyl) tetrasulphide	0.5 - 1.5	120-54-7

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a **POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN** immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### Description of necessary first aid measures

- |                     |  |
|---------------------|--|
| <b>Eye contact</b>  | : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.                            |
| <b>Inhalation</b>   | : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. |
| <b>Skin contact</b> | : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.   |
| <b>Ingestion</b>    | : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.  |

#### Most important symptoms/effects, acute and delayed

##### Potential acute health effects

- |                     |  |
|---------------------|--|
| <b>Eye contact</b>  | : No known significant effects or critical hazards.  |
| <b>Inhalation</b>   | : Harmful if inhaled.  |
| <b>Skin contact</b> | : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction. |
| <b>Ingestion</b>    | : Harmful if swallowed.  |

##### Over-exposure signs/symptoms

- |                     |   |
|---------------------|---|
| <b>Eye contact</b>  | : No specific data.   |
| <b>Inhalation</b>   | : Adverse symptoms may include the following:<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations   |
| <b>Skin contact</b> | : Adverse symptoms may include the following:<br>irritation<br>redness<br>dryness<br>cracking<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations |
| <b>Ingestion</b>    | : Adverse symptoms may include the following:<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations   |

#### Indication of immediate medical attention and special treatment needed, if necessary

## Section 4. First aid measures

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides  
metal oxide/oxides

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

## Section 6. Accidental release measures

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Special precautions** : Keep away from combustible materials. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.



**Section 8. Exposure controls/personal protection****Control parameters****Occupational exposure limits**

Ingredient name	Exposure limits
manganese dioxide	<b>ACGIH TLV (United States, 4/2014).</b>
	TWA: 0.1 mg/m <sup>3</sup> , (as Mn) 8 hours. Form: Inhalable fraction
	TWA: 0.02 mg/m <sup>3</sup> , (as Mn) 8 hours. Form: Respirable fraction
	<b>OSHA PEL (United States, 2/2013).</b>
	CEIL: 5 mg/m <sup>3</sup> , (as Mn)
Terphenyl, hydrogenated	<b>ACGIH TLV (United States, 4/2014).</b>
	TWA: 4.9 mg/m <sup>3</sup> 8 hours.
	TWA: 0.5 ppm 8 hours.
Zeolites	<b>ACGIH TLV (United States, 4/2014).</b>
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
Talc , not containing asbestiform fibres	<b>ACGIH TLV (United States, 4/2014).</b>
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	<b>OSHA PEL Z3 (United States, 2/2013).</b>
	TWA: 20 mppcf 8 hours. Form: not containing asbestos
carbon black, respirable powder	<b>ACGIH TLV (United States, 4/2014).</b>
	TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction
	<b>OSHA PEL (United States, 2/2013).</b>
	TWA: 3.5 mg/m <sup>3</sup> 8 hours.
magnesium carbonate	<b>OSHA PEL (United States, 2/2013).</b>
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
terphenyl	<b>ACGIH TLV (United States, 4/2014).</b>
	C: 5 mg/m <sup>3</sup>
	C: 0.53 ppm
	<b>OSHA PEL (United States, 2/2013).</b>
	CEIL: 9 mg/m <sup>3</sup>
	CEIL: 1 ppm

**Key to abbreviations**

- A** = Acceptable Maximum Peak  
**ACGIH** = American Conference of Governmental Industrial Hygienists.  
**C** = Ceiling Limit  
**F** = Fume  
**IPEL** = Internal Permissible Exposure Limit  
**OSHA** = Occupational Safety and Health Administration.  
**R** = Respirable  
**Z** = OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

- S** = Potential skin absorption  
**SR** = Respiratory sensitization  
**SS** = Skin sensitization  
**STEL** = Short term Exposure limit values  
**TD** = Total dust  
**TLV** = Threshold Limit Value  
**TWA** = Time Weighted Average

**Consult local authorities for acceptable exposure limits.**

**Section 8. Exposure controls/personal protection**

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety glasses with side shields.

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Gloves** : butyl rubber

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

**Section 9. Physical and chemical properties****Appearance**

<b>Physical state</b>	: Liquid.
<b>Color</b>	: Black.
<b>Odor</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>pH</b>	: Not available.
<b>Melting point</b>	: Not available.
<b>Boiling point</b>	: 360°C (680°F)
<b>Flash point</b>	: Closed cup: Not applicable.
<b>Material supports combustion.</b>	: Yes.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Flammability (solid, gas)</b>	: Not available.
<b>Lower and upper explosive (flammable) limits</b>	: Not available.
<b>Evaporation rate</b>	: Not available.
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Relative density</b>	: 1.88
<b>Density ( lbs / gal )</b>	: 15.69
<b>Solubility</b>	: Insoluble in the following materials: cold water.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Viscosity</b>	: Kinematic (40°C (104°F)): >0.21 cm <sup>2</sup> /s (>21 cSt)
<b>VOC</b>	: <input checked="" type="checkbox"/> Not available.
<b>% Solid. (w/w)</b>	: 100

**Section 10. Stability and reactivity**

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
<b>Incompatible materials</b>	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

**Section 10. Stability and reactivity**

**Hazardous decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

**Section 11. Toxicological information****Information on toxicological effects****Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
manganese dioxide	LD50 Oral	Rat	3478 mg/kg	-
Terphenyl, hydrogenated	LD50 Oral	Rat	17500 mg/kg	-
Zeolites	LD50 Oral	Rat	>5 g/kg	-
carbon black, respirable powder	LD50 Dermal	Rabbit	>3 g/kg	-
	LD50 Oral	Rat	>15400 mg/kg	-
magnesium carbonate	LD50 Oral	Rat	8000 mg/kg	-
terphenyl	LD50 Oral	Rat	1400 mg/kg	-
1,3-diphenylguanidine	LD50 Oral	Rat	323 mg/kg	-

**Conclusion/Summary** : There are no data available on the mixture itself.

**Irritation/Corrosion****Conclusion/Summary**

**Skin** : There are no data available on the mixture itself.

**Eyes** : There are no data available on the mixture itself.

**Respiratory** : There are no data available on the mixture itself.

**Sensitization****Conclusion/Summary**

**Skin** : There are no data available on the mixture itself.

**Respiratory** : There are no data available on the mixture itself.

**Mutagenicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

**Carcinogenicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

**Classification**

Product/ingredient name	OSHA	IARC	NTP
Zeolites	-	3	-
carbon black, respirable powder	-	2B	-

**Carcinogen Classification code:**

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

**Reproductive toxicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

**Teratogenicity**

**Section 11. Toxicological information**

**Conclusion/Summary** : There are no data available on the mixture itself.

**Specific target organ toxicity (single exposure)**

Name	Category
Zeolites	Category 3
Talc, not containing asbestiform fibres	Category 3
1,3-diphenylguanidine	Category 3

**Specific target organ toxicity (repeated exposure)**

Name	Category
manganese dioxide	Category 2

**Target organs** : Contains material which causes damage to the following organs: lungs, skin, central nervous system (CNS).  
Contains material which may cause damage to the following organs: blood, kidneys, the nervous system, liver, spleen, lymphatic system, cardiovascular system, upper respiratory tract, bone marrow, eye, lens or cornea.

**Aspiration hazard**

Not available.

**Information on the likely routes of exposure****Potential acute health effects**

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : Harmful if inhaled.  
**Skin contact** : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.  
**Ingestion** : Harmful if swallowed.

**Over-exposure signs/symptoms**

**Eye contact** : No specific data.  
**Inhalation** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations  
**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations  
**Ingestion** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

**Delayed and immediate effects and also chronic effects from short and long term exposure**

## Section 11. Toxicological information

**Conclusion/Summary** : There are no data available on the mixture itself. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

### Short term exposure

**Potential immediate effects** : There are no data available on the mixture itself.

**Potential delayed effects** : There are no data available on the mixture itself.

### Long term exposure

**Potential immediate effects** : There are no data available on the mixture itself.

**Potential delayed effects** : There are no data available on the mixture itself.

### Potential chronic health effects

**General** : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : Suspected of damaging fertility.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	1099.7 mg/kg
Inhalation (gases)	10532.1 ppm
Inhalation (vapors)	25.75 mg/l
Inhalation (dusts and mists)	3.511 mg/l

## Section 12. Ecological information

### Toxicity

Not available.

### Persistence and degradability

Not available.

### Bioaccumulative potential

**Section 12. Ecological information**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
1,3-diphenylguanidine	1.69	19.95	low
bis(piperidinothiocarbonyl) tetrasulphide	2.8	16.88	low

**Mobility in soil**

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

**Section 13. Disposal considerations**

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: **HANDLING AND STORAGE** and Section 8: **EXPOSURE CONTROLS/PERSONAL PROTECTION** for additional handling information and protection of employees. Section 6. **Accidental release measures**

**14. Transport information**

	DOT	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

**Additional information**

DOT : None identified.  
IMDG : None identified.  
IATA : None identified.

## 14. Transport information

**Special precautions for user** : **Transport within user's premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

**United States inventory (TSCA 8b)** : All components are listed or exempted.  
**Australia inventory (AICS)** : All components are listed or exempted.  
**Canada inventory (DSL)** : All components are listed or exempted.  
**China inventory (IECSC)** : All components are listed or exempted.  
**Europe inventory (REACH)** : Please contact your supplier for information on the inventory status of this material.  
**Japan inventory (ENCS)** : All components are listed or exempted.  
**Korea inventory (KECI)** : All components are listed or exempted.  
**New Zealand (NZIoC)** : All components are listed or exempted.  
**Philippines inventory (PICCS)** : All components are listed or exempted.

### United States

#### SARA 302/304

**SARA 304 RQ** : Not applicable.

#### Composition/information on ingredients

No products were found.

#### SARA 311/312

**Classification** : Immediate (acute) health hazard  
 Delayed (chronic) health hazard

#### Composition/information on ingredients

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
manganese dioxide	No.	No.	No.	Yes.	Yes.
Zeolites	No.	No.	No.	Yes.	No.
Polyphenyls, quater- and higher, partially hydrogenated	No.	No.	No.	Yes.	No.
Talc, not containing asbestiform fibres	No.	No.	No.	Yes.	No.
carbon black, respirable powder	Yes.	No.	No.	No.	Yes.
terphenyl	No.	No.	No.	Yes.	No.
1,3-diphenylguanidine	Yes.	No.	No.	Yes.	Yes.
bis(piperidinothiocarbonyl) tetrasulphide	Yes.	No.	No.	Yes.	No.

#### SARA 313

	<b>Chemical name</b>	<b>CAS number</b>	<b>Concentration</b>
<b>Supplier notification</b>	: manganese dioxide	1313-13-9	30 - 60



Product code **PS 890 B 2 Part A**

Date of issue **24 February 2015** Version **3.02**

Product name **PS 890 B 2 Part A**

## Section 15. Regulatory information

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**Additional environmental information** is contained on the **Environmental Data Sheet** for this product, which can be obtained from your PPG representative.

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

Health : 3 \* Flammability : 0 Physical hazards : 1

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6888.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)

Health : 3 Flammability : 0 Instability : 1

Date of previous issue : 1/6/2015.

Organization that prepared : EHS  
the MSDS

Key to abbreviations : ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
UN = United Nations

☑ Indicates information that has changed from previously issued version.

### Disclaimer

*The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.*

# SAFETY DATA SHEET



Date of issue/Date of revision 20 November 2014  
Version 2.01

## Section 1. Identification

Product name : PS 890 B 2 Part B  
Product code : PS 890 B 2 Part B  
Other means of Identification : Not available.  
Product type : Solid.

### Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications.  
Use of the substance/  
mixture : Sealants  
Uses advised against : Not applicable.

Supplier : PPG Aerospace PRC-DeSoto  
12780 San Fernando Road  
Sylmar, CA 91342  
Phone: 818 362 6711

Emergency telephone number : (412) 434-4515 (U.S.)  
(514) 645-1320 (Canada)  
01-800-00-21-400 (Mexico)

## Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
Classification of the substance or mixture : SKIN CORROSION/IRRITATION - Category 2  
CARCINOGENICITY - Category 2  
TOXIC TO REPRODUCTION (Unborn child) - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2  
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 9.2%

### GHS label elements

Hazard pictograms :



Signal word : Warning

**Section 2. Hazards identification**

**Hazard statements** : Causes skin irritation.  
Suspected of damaging the unborn child.  
Suspected of causing cancer.  
May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

**Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Do not breathe dust. Wash hands thoroughly after handling.

**Response** : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention.

**Storage** : Store locked up.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements** : **1-component mixtures:** formaldehyde is released during curing. Formaldehyde may cause irreversible effects, is irritating to the mucous membranes and may cause skin sensitization. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

**Hazards not otherwise classified** : Prolonged or repeated contact may dry skin and cause irritation.

**Section 3. Composition/information on ingredients**

**Substance/mixture** : Mixture

**Product name** : PS 890 B 2 Part B

<b>Ingredient name</b>	<b>%</b>	<b>CAS number</b>
calcium carbonate	15 - 40	471-34-1
proprietary modified polysulfide polymer	3 - 7	Not available.
toluene	1 - 5	108-88-3
titanium dioxide	1 - 5	13463-67-7
proprietary modified polysulfide polymer	1 - 5	Not available.
thiram (ISO)	0.1 - 1	137-26-8

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## **Section 4. First aid measures**

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a **POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN** immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

### **Description of necessary first aid measures**

- |                     |  |
|---------------------|--|
| <b>Eye contact</b>  | : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.                            |
| <b>Inhalation</b>   | : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. |
| <b>Skin contact</b> | : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.   |
| <b>Ingestion</b>    | : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.  |

### **Most important symptoms/effects, acute and delayed**

#### **Potential acute health effects**

- |                     |   |
|---------------------|---|
| <b>Eye contact</b>  | : Causes serious eye irritation.                    |
| <b>Inhalation</b>   | : No known significant effects or critical hazards. |
| <b>Skin contact</b> | : Causes skin irritation. Defatting to the skin.    |
| <b>Ingestion</b>    | : Irritating to mouth, throat and stomach.          |

#### **Over-exposure signs/symptoms**

- |                     |   |
|---------------------|---|
| <b>Eye contact</b>  | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness  |
| <b>Inhalation</b>   | : Adverse symptoms may include the following:<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations   |
| <b>Skin contact</b> | : Adverse symptoms may include the following:<br>irritation<br>redness<br>dryness<br>cracking<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations |
| <b>Ingestion</b>    | : Adverse symptoms may include the following:<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations   |

### **Indication of immediate medical attention and special treatment needed, if necessary**

- |                            |   |
|----------------------------|---|
| <b>Notes to physician</b>  | : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| <b>Specific treatments</b> | : No specific treatment.  |

## Section 4. First aid measures

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
halogenated compounds  
metal oxide/oxides

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

## Section 6. Accidental release measures

- Small spill** : Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Special precautions** : ☒ If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : ☒ Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

**Section 8. Exposure controls/personal protection**

Ingredient name	Exposure limits
calcium carbonate	<b>ACGIH TLV (United States).</b> TWA: 3 mg/m <sup>3</sup> Form: Respirable TWA: 10 mg/m <sup>3</sup> Form: Total dust <b>OSHA PEL (United States).</b> TWA: 5 mg/m <sup>3</sup> Form: Respirable TWA: 15 mg/m <sup>3</sup> <b>OSHA PEL (United States, 2/2013).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
toluene	<b>OSHA PEL Z2 (United States, 2/2013).</b> AMP: 500 ppm 10 minutes. CEIL: 300 ppm TWA: 200 ppm 8 hours. <b>ACGIH TLV (United States, 4/2014).</b> TWA: 20 ppm 8 hours.
titanium dioxide	<b>OSHA PEL (United States, 2/2013).</b> TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust <b>ACGIH TLV (United States, 4/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
thiram (ISO)	<b>ACGIH TLV (United States, 4/2014). Skin sensitizer.</b> TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction and vapor <b>OSHA PEL (United States, 2/2013).</b> TWA: 5 mg/m <sup>3</sup> 8 hours.

**Key to abbreviations**

<b>A</b> = Acceptable Maximum Peak <b>ACGIH</b> = American Conference of Governmental Industrial Hygienists. <b>C</b> = Ceiling Limit <b>F</b> = Fume <b>IPEL</b> = Internal Permissible Exposure Limit <b>OSHA</b> = Occupational Safety and Health Administration. <b>R</b> = Respirable <b>Z</b> = OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances	<b>S</b> = Potential skin absorption <b>SR</b> = Respiratory sensitization <b>SS</b> = Skin sensitization <b>STEL</b> = Short term Exposure limit values <b>TD</b> = Total dust <b>TLV</b> = Threshold Limit Value <b>TWA</b> = Time Weighted Average
--	---

**Consult local authorities for acceptable exposure limits.**

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **Section 8. Exposure controls/personal protection**

### **Individual protection measures**

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## **Section 9. Physical and chemical properties**

### **Appearance**

- Physical state** : Solid.
- Color** : White.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point** : Not available.
- Boiling point** : Not available.
- Flash point** : Closed cup: 67.22°C (153°F)
- Material supports combustion.** : Yes.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Lower: 1%
- Evaporation rate** : Not available.



Product code **PS 890 B 2 Part B**

Date of issue **20 November 2014 Version 2.01**

Product name **PS 890 B 2 Part B**

## Section 9. Physical and chemical properties

Vapor pressure : Not available.  
Vapor density : Not available.  
Relative density : 1.5  
Density ( lbs / gal ) : 12.52  
Solubility : Insoluble in the following materials: cold water.  
Partition coefficient: n-octanol/water : Not available.  
Viscosity : Kinematic (40°C (104°F)): Not applicable.  
VOC : 57 g/l

## Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.  
Refer to protective measures listed in sections 7 and 8.

Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:  
oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
calcium carbonate	LD50 Oral	Rat	6450 mg/kg	-
	LC50 Inhalation Vapor	Rat	49 g/m <sup>3</sup>	4 hours
	LC50 Inhalation Vapor	Rat	8000 ppm	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
titanium dioxide	LD50 Oral	Rat	636 mg/kg	-
	LD50 Oral	Rat	>10 g/kg	-
	LC50 Inhalation Dusts and mists	Rat	4420 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	>5000 mg/kg	-
thiram (ISO)	LD50 Oral	Rat	560 mg/kg	-

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Irritation/Corrosion

#### Conclusion/Summary

**Section 11. Toxicological information****Skin** : There are no data available on the mixture itself.**Eyes** : There are no data available on the mixture itself.**Respiratory** : There are no data available on the mixture itself.**Sensitization****Conclusion/Summary****Skin** : There are no data available on the mixture itself.**Respiratory** : There are no data available on the mixture itself.**Mutagenicity****Conclusion/Summary** : There are no data available on the mixture itself.**Carcinogenicity****Conclusion/Summary** : There are no data available on the mixture itself.**Classification**

Product/ingredient name	OSHA	IARC	NTP
toluene	-	3	-
titanium dioxide	-	2B	-
thiram (ISO)	-	3	-

**Carcinogen Classification code:**

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

**Reproductive toxicity****Conclusion/Summary** : There are no data available on the mixture itself.**Teratogenicity****Conclusion/Summary** : There are no data available on the mixture itself.**Specific target organ toxicity (single exposure)**

Name	Category
proprietary modified polysulfide polymer	Category 3
toluene	Category 3
proprietary modified polysulfide polymer	Category 3

**Specific target organ toxicity (repeated exposure)**

Name	Category
toluene	Category 2
thiram (ISO)	Category 2

**Target organs**

: Contains material which causes damage to the following organs: brain.  
Contains material which may cause damage to the following organs: blood, kidneys, the reproductive system, liver, heart, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

**Aspiration hazard**

Name	Result
toluene	ASPIRATION HAZARD - Category 1

## **Section 11. Toxicological information**

### **Information on the likely routes of exposure**

#### **Potential acute health effects**

- Eye contact** : Causes serious eye irritation.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : Causes skin irritation. Defatting to the skin.  
**Ingestion** : Irritating to mouth, throat and stomach.

#### **Over-exposure signs/symptoms**

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### **Delayed and immediate effects and also chronic effects from short and long term exposure**

- Conclusion/Summary** : There are no data available on the mixture itself. **1-component mixtures:**  
formaldehyde is released during curing. Formaldehyde may cause irreversible effects, is irritating to the mucous membranes and may cause skin sensitization. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

#### **Short term exposure**

- Potential immediate effects** : There are no data available on the mixture itself.  
**Potential delayed effects** : There are no data available on the mixture itself.

#### **Long term exposure**

**Section 11. Toxicological information**

**Potential immediate effects** : There are no data available on the mixture itself.

**Potential delayed effects** : There are no data available on the mixture itself.

**Potential chronic health effects**

**General** : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : Suspected of damaging the unborn child.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

**Numerical measures of toxicity****Acute toxicity estimates**

Route	ATE value
Oral	16598.2 mg/kg

**Section 12. Ecological information****Toxicity**

Product/ingredient name	Result	Species	Exposure
titanium dioxide thiram (ISO)	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 0.04 mg/l Marine water	Algae - Nannochloropsis oculata	72 hours
	Acute LC50 0.02 mg/l Marine water	Crustaceans - Artemia franciscana - Nauplii	48 hours
	Acute LC50 0.01 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours

**Persistence and degradability**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
toluene	-	-	Readily

**Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
toluene	2.73	8.32	low
thiram (ISO)	1.73	3.39	low

**Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Section 13. Disposal considerations**

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: **HANDLING AND STORAGE** and Section 8: **EXPOSURE CONTROLS/PERSONAL PROTECTION** for additional handling information and protection of employees. Section 6. **Accidental release measures**

**14. Transport information**

	<b>DOT</b>	<b>IMDG</b>	<b>IATA</b>
<b>UN number</b>	Not regulated.	Not regulated.	Not regulated.
<b>UN proper shipping name</b>	-	-	-
<b>Transport hazard class (es)</b>	-	-	-
<b>Packing group</b>	-	-	-
<b>Environmental hazards</b>	No.	No.	No.
<b>Marine pollutant substances</b>	Not applicable.	Not applicable.	Not applicable.
<b>Product RQ (lbs)</b>	4412.8	Not applicable.	Not applicable.
<b>RQ substances</b>	(thiram (ISO), toluene)	Not applicable.	Not applicable.

**Additional information**

**DOT** : Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

**IMDG** : None identified.

**IATA** : None identified.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Product code **PS 890 B 2 Part B**

Date of issue **20 November 2014 Version 2.01**

Product name **PS 890 B 2 Part B**

## Section 15. Regulatory information

**United States inventory (TSCA 8b)** : Not determined.

**Australia inventory (AICS)** : Not determined.

**Canada inventory (DSL)** : Not determined.

**China inventory (IECSC)** : At least one component is not listed.

**Europe inventory (REACH)** : Please contact your supplier for information on the inventory status of this material.

**Japan inventory (ENCS)** : Not determined.

**Korea inventory (KECI)** : Not determined.

**New Zealand (NZIoC)** : Not determined.

**Philippines inventory (PICCS)** : Not determined.

### United States

#### SARA 302/304

**SARA 304 RQ** : Not applicable.

#### Composition/information on ingredients

No products were found.

#### SARA 311/312

**Classification** : Immediate (acute) health hazard  
Delayed (chronic) health hazard

#### Composition/information on ingredients

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
proprietary modified polysulfide polymer	No.	No.	No.	Yes.	No.
toluene	Yes.	No.	No.	Yes.	Yes.
titanium dioxide	No.	No.	No.	No.	Yes.
proprietary modified polysulfide polymer	No.	No.	No.	Yes.	No.
thiram (ISO)	Yes.	No.	No.	Yes.	Yes.

#### SARA 313

	<u>Chemical name</u>	<u>CAS number</u>	<u>Concentration</u>
<b>Supplier notification</b>	: toluene	108-88-3	1 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**Additional environmental information** is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

#### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Product code **PS 890 B 2 Part B**

Date of issue **20 November 2014 Version 2.01**

Product name **PS 890 B 2 Part B**

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

Health : 2 \* Flammability : 2 Physical hazards : 0

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-8888.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)

Health : 2 Flammability : 2 Instability : 0

Date of previous issue : 10/18/2014.

Organization that prepared : EHS  
the MSDS

Key to abbreviations : ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
UN = United Nations

✓ Indicates information that has changed from previously issued version.

### Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.



**AERO-GLEN**  
INTERNATIONAL LLC  
COMMITMENT | EXECUTION | RESULTS

1160 MUSTANG DR. SUITE 300  
DFW AIRPORT, TX 75261  
TEL: (817) 328-6600 FAX (972) 456-1015  
WWW.AEROGLEN.COM  
CAGE CODE 9V172  
ISO9001 / AS9100 / AS9120 REGISTERED  
PRI CERTIFICATION: 14-2127, 14-2128R

## PACKING SLIP

Print Date : May-09-2016 5:02 PM

Printed By : JFLE Print No. : 2

**No. 085140**

Pg:1/1

### Ship To : [1]

AVIALL CENTRAL WAREHOUSE  
Attn: RECEIVING DEPT.  
2750 REGENT BOULEVARD  
DFW Airport, TX 75261  
UNITED STATES  
Tel. : 972-586-1994

### For : Account No. [AVIALL-DALLA]

AVIALL  
Attn: SEDRICK CLARK  
2700 Regent Blvd  
DFW Airport, TX 75261  
UNITED STATES  
Tel. : 972-586-1994

S.O. No. : 060990	Our Ref :	Domestic AW :
Cust P.O. : 0045442126	Your Ref :	Int'l AWB :
Picked On : May-09-2016	Spec Inst :	Origin :
Shipped On : May-02-2016	Contract :	Transpor :
Ship Via : DROP OFF	Lic No. :	Nationali :
F.O.B. : DESTINATION	Expires :	Trip/Flig :
Terms : NET 30		
Our Contact : MERLE LANGTON		

Line	P/N & Description	Cn	Ordered	Qty Shipped	Back Order	Packaging
1	MS21062L3 UID367000  Rev: 1 Note: NUTPLATE: SELF-LKG, CRES PG: 10 PER LOT #: 41294 REV: 1 MFG: ALCOA FASTENING MATL TYPE: AMS5525 Country Of Origin: MEXICO	DF1	300.00	300.00 EA	0.00	
UNLESS NOTED ON THE FACE HEREOF, ANY AND ALL MATERIALS/PARTS SUPPLIED ON THIS S.O./P.O. MAY NOT BE DFARS 252.22-7014 ALT. 1 COMPLIANT. AERO-GLEN, INTL., GRAPEVINE, TX., USA, WILL NOT BE HELD IN VIOLATION OF THE DFARS/SPECIALTY MATERIAL REQUIREMENT. THE COMMODITIES SOLD BY AERO-GLEN, INTL., MUST BE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH ALL U.S. EXPORT LAWS. ANY DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED.						

ITEM MS21062L3=28



BATCH 7364255105



**BHORTON**  
05/11/16

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**AERO-GLEN**  
INTERNATIONAL LLC  
COMMITMENT | EXECUTION | RESULTS

1160 MUSTANG DR. SUITE 300  
DFW AIRPORT, TX 75261  
TEL: (817) 328-6600 --FAX: (972) 456-1015

WWW.AEROGLEN.COM  
CAGE CODE 9V172

ISO9001 / AS9100 / AS9120 REGISTERED  
PRI CERTIFICATION: 14-2127, 14-2128R

## CERTIFICATE OF CONFORMANCE

Print Date : May-09-2016 5:02 PM

Printed By : JFLE Print No. : 3

**No. : 085140**

**Pg:1/1**

**Sold To : Account No. [AVIALL-DALLA]**

**Shipped To :**

AVIALL  
Attn: Email invoice to apinvoices@aviall.com, ACCOUNTS PAYABLE  
2700 Regent Blvd  
DFW Airport, TX 75261  
UNITED STATES  
Tel. : 972-586-1426

AVIALL CENTRAL WAREHOUSE  
RECEIVING DEPT.  
2750 REGENT BOULEVARD  
DFW Airport, TX 75261  
UNITED STATES  
Tel. : 972-586-1994

**S.O. No. : 060990**

**Our Ref :**

**Domestic AW:**

**Customer P. : 0045442126**

**Your Ref :**

**Int'l AWB:**

**Issued Date : May-09-2016**

**Spec Inst :**

**Origin :**

**Contract :**

**Transpor:**

**Ship Via : DROP OFF**

**License No. :**

**Nationali:**

**F.O.B. : DESTINATION**

**Expires :**

**Trip/Flig :**

**Shipped Dat : May-02-20**

**Terms : NET 30**

**Our Contact : MERLE LANGTON**

Line	P/N & Description	Cnd	Qty Ordered	Shipped	Unit Sell Price	Amount
1	MS21062L3 Country Of Origin MEXICO Pick Ticket / Packing Slip No. : 085140 Rev: 1 Note: NUTPLATE: SELF-LKG,CRES PG:10 PER LOT #: 41294 REV: 1 MFG: ALCOA FASTENING MATL TYPE: AMS5525	DF1	300.00EA (Qty. Back 0.00)	300.00		

THIS IS TO CERTIFY THAT THE MATERIAL(S) FORWARDED TO YOU MEET ALL THE PO, DRAWING, CHEMICAL AND PHYSICAL REQUIREMENTS AND FREE OF ANY FOREIGN OBJECT DEBRIS. AERO-GLEN, INTL. DISCLAIMS ANY RESPONSIBILITY FOR ALL MANUFACTURING OR ANY FUNCTIONAL DEFECTS AND HEREBY LIMITS EXPRESSED OR IMPLIED WARRANTIES TO LIABILITY FOR THE COST OF REPLACING THE MATERIAL OR REFUNDING THE INVOICE VALUE OF MATERIAL, SO ACCEPTING DELIVERY OF THIS MATERIAL ACKNOWLEDGES AWARENESS OF SUCH LIMITATION OF LIABILITY. PRODUCTS HAVE NOT BEEN INTRODUCED TO MERCURY CONTAMINATION WHILE AT OUR FACILITY. THE COMMODITIES SOLD BY AERO-GLEN, INTL MUST BE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH U.S. EXPORT LAWS. ANY DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED. ANY OR ALL MATERIALS/PARTS SUPPLIED ON THIS S.O./P.O. SHALL BE DFARS 252.225-7014 ALTERNATE 1 COMPLIANT AS NOTED ON A LINE ITEM BASIS.

TYSON KAY, V.P.

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Ser #:[2000.21078] Ver 9.00.33 Build 29

ORIGINAL (COPY.)

REMIT TO: P.O. BOX 66249, LOS ANGELES, CA 90066-0249  
 13402 BEACH AVE., MARINA DEL REY, CA. 90292  
 TEL (310) 821-5582 \* FAX (310) 821-0378 \* (310) 821-5616  
 D.U.N.S. 05-148-3659 FEDERAL I.D. 95-2312505

ACCOUNT NO. 77003A  
 SOLD TO: AERO-GLEN INTERNATIONAL LLC  
 P O BOX 878  
 GRAPEVINE, TX 76099-0878  
 USA

SHIP TO:  
 AERO-GLEN INTERNATIONAL, LLC  
 1160 MUSTANG DRIVE STE 300  
 DFW INTERNATIONAL AIRPORT, TX 75261  
 USA

**AFI**  
**Aircraft Fasteners**  
**INTERNATIONAL, LLC**  
 w w . a i r c r a f t f a s t . c o m

SALES ORDER NO.		CUSTOMER P.O. NO.	BUYER	SALESPERSON	TERMS
935728-001		029010	MICHELLE FLORES	ERIN	1%10 NET30
DATE ORDERED	DATE SHIPPED	SHIP VIA / FOB / SPECIAL INSTRUCTIONS			
10-27-14		UPS Ground - Collect Acct #: 756163			
LINE	ORDERED	PART NUMBER/DESCRIPTION/LOT NO	SHIPPED	NOTES	
1	1,250	RF100C3M NUT, SELF-LOCKING, 10-32 Cust Part #: MS21062L3 1,250 PCS CTL# 83390-006 MFG LOT # 41294 Country of Origin: MEXICO MFG: ALCOA FASTENING SYSTEMS / REPUBLIC Inspection Report #: 5600	1,250	IAW DFARS 252.225-7014 ALT 1	
		PC - PHYSICAL /CHEMICAL CERTIFICATION			

SHORTAGES MUST BE REPORTED WITHIN 10 DAYS.  
 NO RETURNS ACCEPTED WITHOUT AUTHORIZATION.  
 NO RETURNS ACCEPTED WITHOUT LOT TRACEABILITY.

MAINTAIN TRACEABILITY -  
 DO NOT MIX LOTS

PAGE: 1 of 2

Continued...